

Massachusetts Institute of Technology
Instrumentation Laboratory

LUMINARY Memo #119

TO: Distribution
FROM: H. McOuat
DATE: 30 October 1969
SUBJECT: New LOSSEM Numbers

In 12-65 I wrote GMS Note #13 which contained a bunch of numbers that in concert provided an approximate sun-moon ephemeris, by the year, for the years 1966-67 thru 1969-70.

The original intent was to provide an interim ephemeris for early Apollo flights. It seems that for LUMINARY ropes these beauties are still in. More numbers were requested for future years, and so they are listed below, appropriate, I believe, for direct insertion into an "LGC" listing.

<u>NAME</u>	<u>1970-1971</u>	<u>1971-1972</u>
KONMAT+ 8	0.91746	0.91746
KONMAT+ 10	-0.035711	-0.035711
KONMAT+ 14	0.39784	0.39784
KONMAT+ 16	0.082354	0.082354
RATESP	0.03660099	0.03660099
RATESP+ 2	0.00273780	0.00273780
RATESP+ 4	-0.00014720	-0.00014720
RATESP+ 6	0.174685017	0.534087032
RATESP+ 8	0.274011893	0.273348812
RATESP+ 10	0.932520213	0.878830928

VAL67	0.017531111	0.017762914
VAL67+ 2	-0.224249436	0.024937781
VAL67+ 4	0.036291713	0.036291713
VAL67+ 6	0.003484442	0.003478033
VAL67+ 8	0.058226609	0.532659584
VAL67+ 10	0.031250000	0.031250000
VAL67+ 12	0.005329930	0.005331949
VAL67+ 14	-0.010500980	-0.011358984
VAL67+ 16	0.002737925	0.002737925

*** It appears to be a misnomer